EverFocus®

Commander NVR

Enterprise Linux Recording Solution

Power. Speed. Redefined

Revolutionary High Megapixel Recording and Management System

Linux-embedded | F.R. Mega Optimized | 250Mbps throughput | RAID 0,1,5, 1+0 | Command Chain | Dual Gigaports | Centralized E-Map | Event Respond | 400 ch (live) 100 ch (playback) | Image Fusion | Twin Client | Bandwidth control

Win / Mac Client

Browser

Windows Only

Mobile Apps

iPad / iPhone

Technology Partners

Camera Support

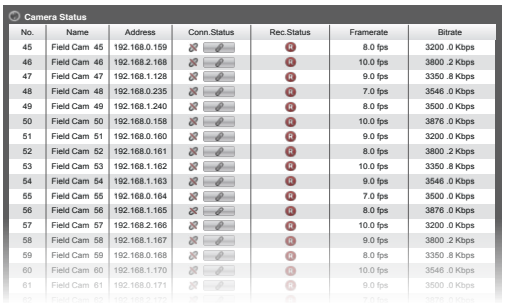
EverFocus®

ACTi, Arecont Vision, ARM Electronics, Axis Communications, Basler, Bosch, Brickcom, Bullwark, centrix, Cisco, CNB Technology, Corum CCTV, Dahua, DW Digital Watchdog, D-Link, Dynacolor, eneo, EverFocus, FINE, Forenix, GE Security, Grandstream, Grundig, Hikvision, Honeywell, IQinVision, level one, Linksys, Lumenera, Mobotix, Onvif, Panasonic, Pelco, Pixord, Probe, Rover Systems, Samsung, Santec, Sanyo, Sony, StarDot Technologies, Sunell, Toshiba, Truen, UDP Technology, Videosec, Vista, Vivotek, Zavio

Design Highlights

Megapixel Recording Powerhouse

EverFocus Commandern NVR utilizes a redefined recording engine named File Ring. File Ring is engineered from scratch to handle high megapixel recordings by changing how hard drives store and retrieve video data. It can process large amount of data throughput boosting the Commanders recording performance to 64 2 - Megapixel cameras (H.264, 15 fps, moderate traffic).



64x 5-Megapixel recording utilizing F.R. Mega Optimized recording engine

Central Remote Management

The Commander NVR is built with highly efficient data and event management architecture. User can select smaller bandwidth profile for remote viewing to eliminate internet bottlenecks without affecting the recorded videos.

In addition, the Commander is equipped with Command Chain Technology which can synchronize user accounts and critical events across 100 servers, 400 channel live views and 100 channel playback simultaneously.

Centralized E-Map with video popup and tool bar for users to quickly access commonly used functions

Turn, Scale and Stitch Cameras Together

Experience a world without camera dead angles and narrow hallway views. Image Fusion Technology can manipulate camera views by changing its viewing angle and image size make viewing easier in both live view and playback. Moreover, users can stitch multiple cameras together to form a unified single view from up to 10 different cameras.

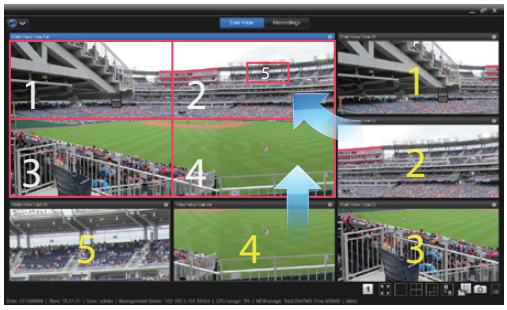


Image Fusion combines camera 1 to 5 into a single view for easier viewing

Success Stories

Industrial	Hostpital	Retail	Education	Transportation	Government	Hotel
LG Powercom 356CH (Korea)	El Zerayeen Hospital 560CH (Egypt)	Macanna Inc. 400CH (Taiwan)	Fujian Exam Center 18,000CH (China)	RapidKL 670CH (Malaysia)	TRE Parana 970CH (Brazil)	Cristal Hotel 100CH (USA)

System Architecture

Server Highlights

- Linux embedded
- Support 50 brands of IP manufacturers and over 1310 camera models
- Onvif compatible
- Record up to 64 megapixel cameras (through license upgrade)
- High throughput (up to 250Mbps)
- Chain Technology – Synchronize user accounts across 100 servers through a single server instantly
- Remote server configuration
- Recording in external storage (DAS, iSCSI)
- Redundant power (NT-8040RP only)
- Centralized I/O and event respond systems
- Dual gigabit Ethernet ports
- Camera Dual (2nd) Stream support
- Backup to FTP
- Support continuous, scheduled, event based and I/O based recording
- Synchronized audio and video recording
- Support full SDK
- License management include transfer license

Client Highlights

- Windows and Mac compatible
- Manage up to 100 servers, 400 channels live view and 100 channels playback simultaneously.
- Image Fusion Technology – stitch up to 10 cameras together to form a consecutive single view for easier viewing
- Panorama 360° PTZ (Immervision and VIVOTEK fisheye)
- Support Stream Profile for remote live view bandwidth control (Original / 300 kbps / 100 kbps)
- Digital and Optical PTZ
- Popup event playback
- Support mobile client for iPhone / iPad / Android
- Centralized E-map
- Centralized I/O Panel and Event Panel
- Public View and Private View for each user
- View Tour to loop through selected Views
- Instant Playback
- Save video clips into AVI, ASF or MOV format
- Intelligent motion/ event search in playback to quickly find the subject of interest
- Twin Clients to support identical, full featured software client and web client
- Joystick

External Supports

- External storage support through 3rd party DAS, iSCSI
- Support APC Uninterrupted Power Supply (Smart-UPS 750 VA / APC Back-UPS 500 ES / APC Smart UPS 1500 / APC Smart UPS 3000)

Specification

Model		Commander NVR
Product Image		Rack-mount 1U
Part Number	Server	NVR-4000
	IP License	NVR-4016UP/NVR-4032UP/NVR-4060UP
CPU Model		Intel® Atom™ processor D525 (1M Cache, 1.80 GHz)
Max IP License (through upgrade)		64
Base IP License (included in server)		4
Server O/S		Embedded Linux
Video Compression		H.264, MPEG4, MJPEG
Recording Performance		250 Mbps (MAX), 150 Mbps (OPTIMAL) *
Removable HDD Trays		4x SATA II
HDD Support		3TB per drive (Max 4 drives)
RAID		0, 1, 5, 10
External Storage		DAS, iSCSI
External Ports		6 x USB 2.0 (for mouse, UPS); 1 x eSATA (for DAS)
Ethernet (NIC)		2 x Gigabits Ports
Voltage		100 - 240V
Power Consumption		200W
Dimensions (H x W x D)		44.5 x 441 x 428.8 mm
Weight (without HDD)		6.235 kg (13.75lbs)
Temperature		0°C ~ 40°C (32°F ~ 104°F)
Humidity		5 ~ 95 RH
Supported Language (21 languages)		Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Serbian, Spanish, Slovenian, Swedish, Thai, Turkish

*Max recording throughput (250 Mbps): Approx. 64ch 5-Megapixel H.264 cameras at 10 fps when server is streaming out 16 channels of live video without playback.
Optimal recording throughput (150 Mbps): Approx. 64ch 2-Megapixel H.264 cameras at 15 fps when server is streaming out 128 channels of live video and 16 channel playback.

Client System Minimum Requirement	
Part Number	NVR-4000
OS	Windows XP (32-bit) / Win7 (32 and 64-bit) / Mac OS X v10.6, 10.7
CPU	Intel® Core™2 Duo Processor E6400 (2M Cache, 2.13 GHz, 1066 MHz FSB) *
RAM	1GB
LAN Transmission Speed	10/100/1000 Mbps (RJ45)
Remote Client	NuClient (Software), NuClient (Web), iViewer (Mobile App)
Web Client	Internet Explorer 8 and later, Firefox 4.0 ~ 9.0 (Windows version)
Mobile iViewer Platform	iPad / iPhone ANDROID